



Picatinny Arsenal Restoration Advisory Board Meeting

30 April 2015

Ted Gabel, Army RAB Co-Chair

Mission: USAG Picatinny Arsenal provides effective and efficient installation capabilities and services that support the Joint Center of Excellence for Armaments and Munitions enabling continued firepower dominance by the United States Military and sustaining a community in which Service Members, Families, and Civilians will thrive.

Vision: Picatinny Arsenal, recognized within IMCOM as the Army's Home in Northern New Jersey and a Team of professionals, provides consistent, quality services and infrastructure that are force multipliers in supported organization mission accomplishment and materially enhance Service Member, Family, and Civilian well-being and readiness.

The Army's Home in Northern New Jersey



Picatinny Arsenal Restoration Advisory Board Meeting



Agenda for 30 April 2015

- **Attendance, Introductions & Correspondence**
- **Old Business/Action Items/Minutes**
- **Updating the RAB Charter to Comply with RAB Rule**
- **CERCLA Health Risk Assessment Overview**
- **The Picatinny Environmental Restoration Web Page**
- **Update on the Former Burning Grounds**
- **Update in a Minute Procurement Process**
 - **Operational Range Assessment Program**
- **Open Discussion and Next Meeting**



Proposed Charter Updates Per RAB Rule

- Section 1, Name: Delete reference to TRC and insert “the Department of Defense RAB Rule as found at 32 CFR Part 202.”
- Section IV, Membership, E, last sentence: Suggest changing “telephone numbers” to email addresses or just an email address for Community Co-Chair.
- Section V, Operating Procedures, B, first sentence: “The community co-chair and the/or the government co-chair shall be responsible for presiding at each meeting.”
- Section V, Operating Procedures, C, second sentence: More or less frequent meetings may be held depending on the amount of agenda items and winter weather conditions.
- Section V, Operating Procedures, E, second sentence: Meetings shall generally be conducted according to Robert’s Rules of Order, as needed and applicable.



Proposed Charter Updates Per RAB Rule

- Section V, Operating Procedures, F: Change language to delete reference to consensus. Insert: “The goal of the PAERAB will not be to seek consensus when discussing environmental cleanup issues. The Army is seeking input from as many constituencies as possible, and all opinions are welcome and will be noted in the meeting minutes.”
- Section VII, Dissolution: Per RAB Rule, dissolution is at the discretion of the Installation Commander, after seeking community input. Suggest changing language to refer to procedures documented in the RAB Rule Handbook.



Components of the Picatinny Environmental Restoration Program Web Site *(Discussed at the October 2014 RAB)*

- 1. Background and CERCLA Process:**
 - a. Installation Action Plan (IAP) 2013- Link to a PDF
 - b. Previous IAPs 2012-2009 - Link to table with PDFs
 - c. CERCLA Process and Information
- 2. Public Notice Link:** This will appear periodically with a Public Notice and a link to the document and a mechanism to send an email with comments to Environmental Office
- 3. Picatinny Environmental Restoration Advisory Board with date and location of next meeting:**
 - a. Link to PDF of RAB Charter
 - b. Link to Army Guidance regarding Restoration Advisory Boards
 - c. Link to Mike Glaab's PAERAB Site
 - d. Link to latest meeting minutes and link to table with historical minutes



Components of the Picatinny Environmental Restoration Program Web Page

4. Document Repository with link to a table with the following categories:
 - a. Installation Restoration Program
 - i. Remedial Investigations
 - ii. Feasibility Studies
 - iii. Proposed Plans
 - iv. Signed Records of Decision
 - v. Remedial Action Work Plans
 - vi. Remedial Action Reports
 - vii. Annual Reports for Groundwater
 - viii. Five-Year Reviews
 - b. Military Munitions Response Program
 - i. Site Inspection Report
 - ii. Remedial Investigation Work Plan
 - iii. Remedial Investigation Report
 - iv. Non-Time Critical Land Use Control Work Plan
 - v. Link to Garrison Safety regarding UXO Safety
 - c. Community Relations Plan
5. Picture Catalog
6. Links to Army, EPA and NJDEP websites. Placeholder for a link to GIS if possible.



Picatinny Environmental Restoration Program Web Page

- Following format described at October 2014 meeting
- Ongoing improvements
- Passed Security check
- Will include meeting and public notices
- Will include historical documents and highlight documents available for public comment

https://picac2vmwebqa.pica.army.mil/EnvRestore
/



Update on Former Burning Grounds Remediation Since October 2014

- Basin changed to a Modified Stormwater Management System; concern of flooding from infiltration basin to pavement
- Solar Project to be operational in Fall
- 12-acre wetlands enhancement complete; survey and repair as required
- Remedial Action Report, Remedial Action Addendum Report, Wetland Mitigation Report, and Annual Groundwater Report: Approved by NJDEP and EPA



Photos of Former Burning Grounds





Solar Panels





Picatinny Arsenal Restoration Advisory Board Meeting



Update-in-a-Minute focusing on the Procurement Process
for Picatinny's
Installation Restoration Program (IRP)
&
Military Munitions Response Program (MMRP)

30 April 2015 Presentation to the
Picatinny Arsenal
Restoration Advisory Board



Contracting for Picatinny's Installation Restoration Program and Military Munitions Response Program

- **From October 2014: “A major performance-based contracting effort for award next calendar year”**
 - Continue all monitoring requirements including Land Use Controls and Land Use Monitoring
 - Continue CERCLA Process and documents:
 - FS for Lakes Sites, PP and ROD for Non-Lake and 46 Sites, Proposed Plan and ROD for PICA 111, Proposed Plan and ROD 600 Hill Groundwater, ROD for 3-Sites
 - MMRP: development of FS through ROD for all sites
 - Initiate investigation of abandoned railroad lines and East Bank of Green Pond Brook
 - Supporting the RAB and Administrative Requirements
 - Remedial Design and Remedial Action, as needed
- **Will be 2 performance-based contracts:**
 - Small Business Contract
 - Unrestricted or Large Business.
- Contract to be awarded by Mission Installation



Small Business Contract deals with the implemented Records of Decision

- **Signed RODs:**

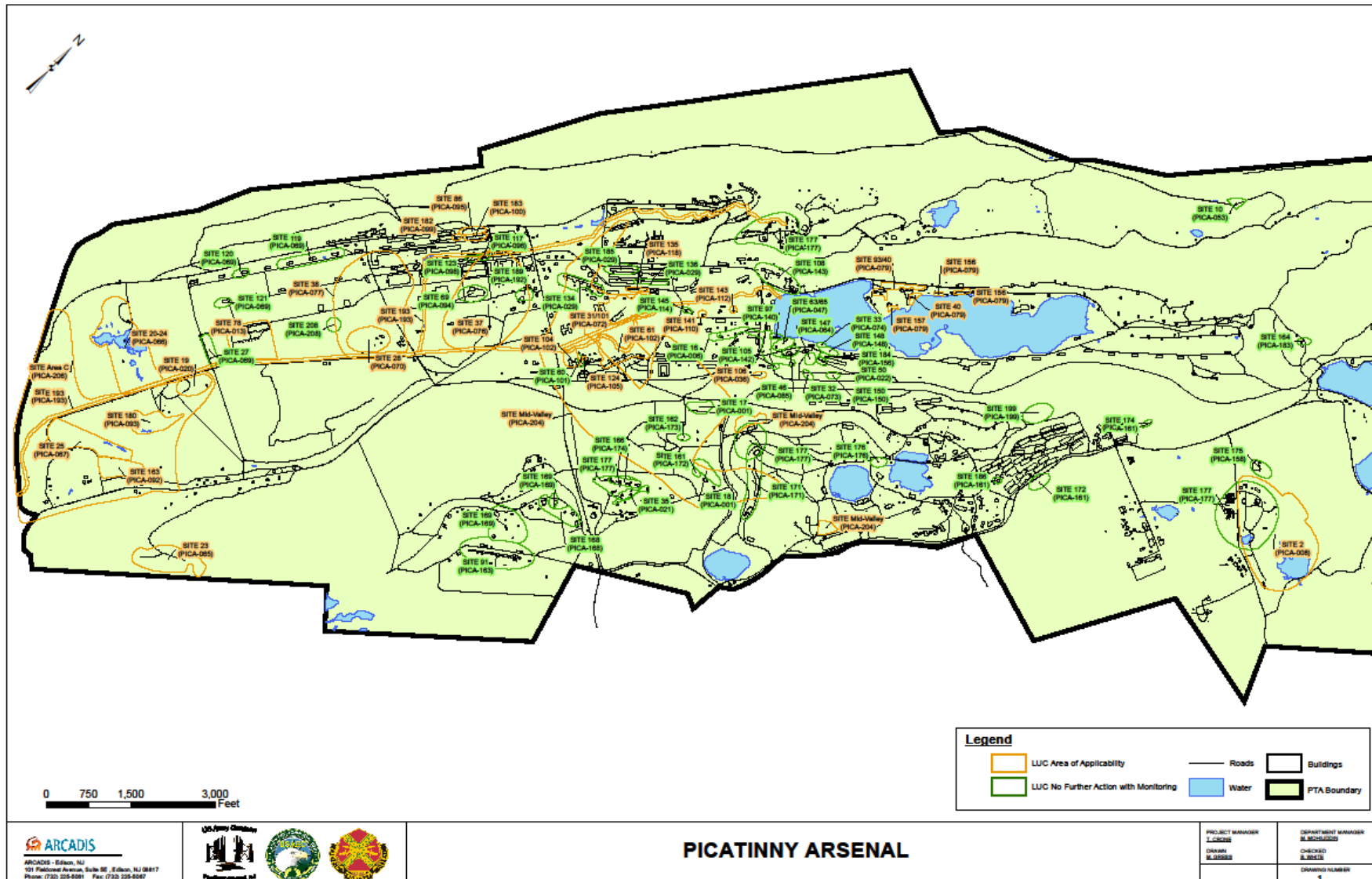
- Site 20/24: considered complete except LUC monitoring
- Post Farm: considered complete except for monitoring
- Green Pond/ Bear Swamp Brook: only monitoring remains
- Area D Groundwater: Permeable Reactive Barrier monitoring continues
- Site 25/26: ICs and vegetative cover considered complete
- Site 180 ROD: complete except long-term monitoring
- Area E Groundwater: considered complete except for the MNA monitoring
- 13 Sites Institutional ROD PICA 20: LUCs ongoing
- Site 61/104: complete and LUCs ongoing
- Area B Groundwater: considered Remedy in Place
- Site 31/101 DRMO Yard: Complete except for LUCs
- Southern Boundary/Area C: LTM continues
- Group 1 GW and Soils: considered complete except monitoring
- Group 3 GW and Surface Water: considered complete except monitoring
- Site 78, PICA 13 GW and SW: considered complete except monitoring
- MidValley Groundwater: remediation ongoing
- 25 Sites NFA Record of Decision
- Former Burning Grounds (PICA 02): Explanation of Differences
- Army and EPA signed 21-Site NFA ROD



Picatinny Arsenal Restoration Advisory Board Meeting



Map of all Sites in Small Business





Scope of the Small Business Contract

14 sites in the Remedial Action – Operations (RA-O) phase and 70 sites which are included in LTM Phase. All sites have:

- Remedial Designs approved by EPA and NJDEP (except the sites in the 21 and 25 Site RODs)
- Groundwater and surface water sampling and reporting (annual, semi-annual and quarterly)
- Required Statistical Testing per RD
- Annual LUC and Monitoring of Land Use Certifications

The next 5-Year Review to be completed in FY16 will be supported by this contractor



Short Synopsis of LTM Sites

- ❑ Lower Burning Ground (PICA-002): Cover maintenance, wetland enhancement monitoring, groundwater and surface water monitoring
- ❑ Group of 13 (PICA-020): LUCs only at 11 sites
- ❑ Post Farm Landfill (PICA-065): Groundwater monitoring and LUCs
- ❑ Pyro Range & Landfill (PICA-067) : 2 Sites (20/24). LUCs, cap maintenance Landfill & Dredge Pile; LUC, mowing and cap maintenance”
- ❑ Defense Reutilization Marketing Office (PICA-072): Cover maintenance, mowing, LUCs
- ❑ Waste Burial Area (PICA-093): LUCs
- ❑ Waste Dumps & Labs PICA (PICA-102): LUCs
- ❑ GP & BS Brooks (PICA-193): Site Sites LUCs and ecological and sediment sampling
- ❑ Area C (PICA-206): Groundwater monitoring and LUCs including full analysis of Southern Boundary well
- ❑ 25 Site Group: 25 Sites that require Annual Certification only
- ❑ 21 Site Group: 20 Sites that require Annual Certification only



Synopsis of the Remedial Operations Sites

- Group 1 (PICA 079): MNA and LUCs for 4 Sites in 800 Area for Groundwater, Surface Water, Sediment in Lake Picatinny and Soils
- Group 3 (PICA 08): Bioremediation and MNA for Volatile Organics in Groundwater. 3 Sites in 3500 and 3600 Area ROD includes Groundwater and Surface Water and LUCs
- RI Concept Plan Site 78 (PICA 13) : Groundwater and Surface Water behind building 91
- Area B (PICA 205): In situ enhanced bioremediation and MNA with LUCs for Groundwater and Surface Water near truck gate. Site is part of the Safe Haven Area
- Area D (PICA 076): This includes two PICA sites. MNA, PRB and LUCs for Groundwater in plume, sampling of drinking water well
- Area E: (PICA 077): This includes two PICA sites. MNA for Groundwater with Surface Water sampling near building 95
- Mid-Valley (PICA 204): In situ enhanced bioremediation for Groundwater, LTM for Groundwater at the 2 Shell Burial Grounds, former DRMO Yard, and sampling of drinking water wells.



General Sites and Phases in Large Business or Unrestricted Contract

- Covers 96 RI concept sites
- IRP, MMRP, and *ORAP* (*new to the RAB*) Sites
- Base includes
 - 1 Site for Preliminary Assessment (PA)
 - 13 Site Inspections (6 sites have on range and off range components)
 - 87 Sites are in the Remedial Investigation/Feasibility Study through ROD phase



General Components for Large Business or Unrestricted Contract

- Project Management Plan
- UFP-QAPP (includes field sampling plan)
- Health and Safety Plan (HSP)
- Anomaly Avoidance Plan
- Geographic Information System (GIS)
Integration Plan: GIS web-based and to incorporate data from other contractors
- Administrative Record and RAB



Abandoned Railroad Line

- Goal of Base Contract: COR approval and regulator concurrence on Final PA Report
- Army agreed to conduct a PA which resulted from comments from regulators on a 26 Site ROD
- Data has been collected at various sites near RR lines over the years by RI Contractors
- 35 Miles of RR lines at Picatinny (all on post)
- Contract Option for SI Report



Operational Range Assessment for Picatinny Arsenal

- Operational Range Assessment Program (ORAP) is the Army portion of a Department of Defense initiative to determine whether a release or potential threat of release of munitions constituents from an operational range to an off-range creates an unacceptable risk to human health or the environment
 - Department of Defense Directive (DODD) 4715.11, Environmental and Explosives Safety Management on Operational Ranges Within the United States (10 May 2004)
 - Department of Defense Instruction (DODI) 4715.14, Operational Range Assessments (30 November 2005)..



Army's Operational Range Assessment

- The Army conducted over 420 Operational Range Phase I Qualitative Assessments between 2005 - 2009
 - These assessments covered over 10,000 individual ranges
 - Phase I focused on all existing studies, research, investigations, monitoring data, cleanup data, historic and current range use and site specific information to evaluate the possible presence of a MC source, a viable migration pathway for MC to move and receptors off-range both human and ecological and determine whether migration and potential risk was evident.
 - Three conclusions were possible from ORAP Phase I:
 - Unlikely (no issue or impending issue with MC migration or risk)
 - Inconclusive (data gaps remain, need more information) – Picatinny was Inconclusive
 - Referred (validated data existed showing off-range migration with potential risk to human or ecological receptors)



Operational Range Assessment for Picatinny Arsenal

- The Army is in process of conducted 102 Operational Range Phase II Quantitative Assessments, effort began in 2010 and is ongoing
 - ORAP Phase II Assessments involved field sampling to fill data gaps identified during the Phase I efforts. Prior to going to the field, any new data generated since ORAP Phase I was completed is obtained and incorporated in the approach for the assessment
 - Two conclusions are possible following ORAP Phase II Assessment:
 - Unlikely (no current or impending issue with MC migration or risk)
 - Referred (validated data existed showing off-range migration with potential risk to human or ecological receptors)
 - Assessments with conclusion of “Unlikely” will receive an ORAP Periodic Review within five years of the assessment to determine what changes have occurred and if conclusions remain valid.
 - Assessment with conclusion of “Referred” will have further off-range investigations conducted as part of the Army’s cleanup program and associated on-range efforts conducted under non-DERP program or by the installation.



Operational Range Assessment for Picatinny Arsenal

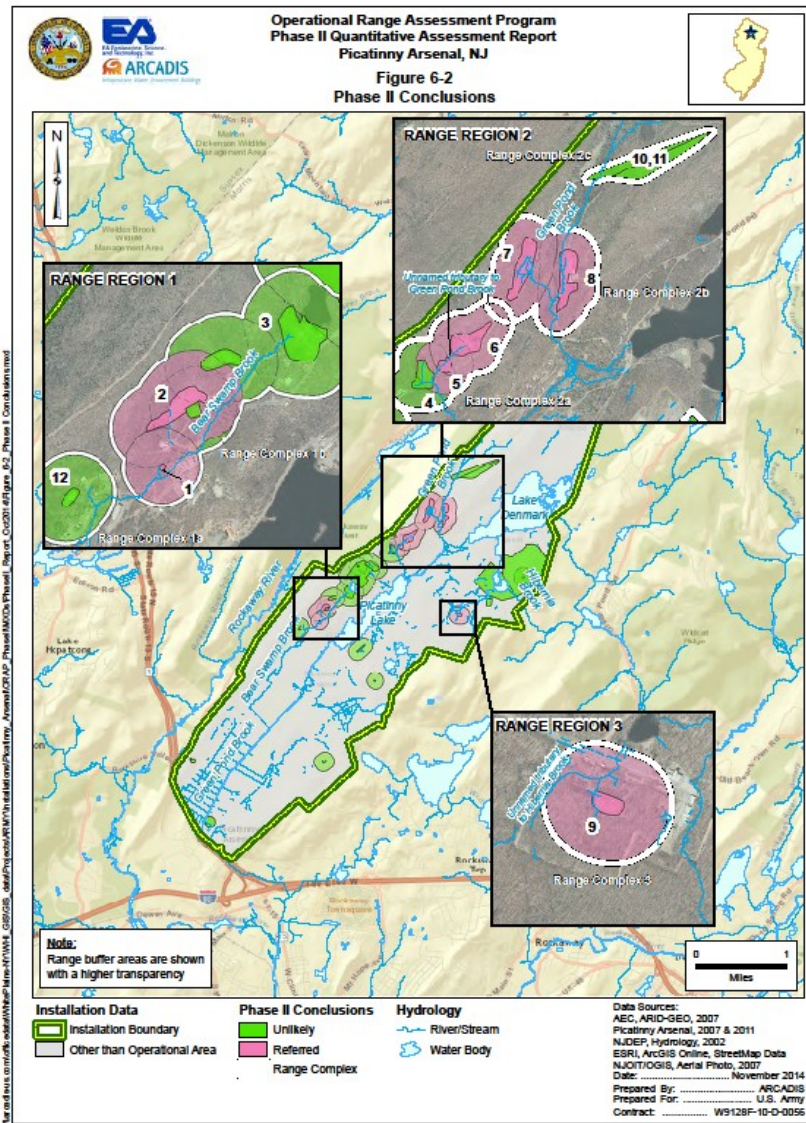
- Picatinny Arsenal ORAP Phase I Assessment was conducted between 2007-2008,
 - Assessment concluded additional information was required to determine if any migration was occurring, an ORAP Phase II Assessment (field sampling) would be needed.
- Picatinny Arsenal ORAP Phase II Assessment was conducted from 2012 to Nov 2014.
 - Assessment identified seven (7) operational ranges and off range areas with likely migration that require further evaluation to determine whether any risk is associated from the migration and to identify where migration is starting
 - NJDEP and EPA concurred with the Army that six (6) of the areas identified require further evaluation. The other range is fully surrounded by an existing IRP site, NJDEP and EPA recommend no additional efforts for this area.



Operational Range Assessment for Picatinny Arsenal

- Addressing the ORAP Findings:
 - Picatinny Arsenal will be conducting Site Inspections for the off-range areas identified by ORAP. These SI's will be conducted under new contract for MMRP sites, per CERCLA and the FFA.
 - Picatinny Arsenal will be conducting on-range inspections to further indentify where the MC is migrating from. These efforts will be conducted with non-DERP funding as different regulations and requirements apply to operational ranges vs. non-range areas.
- All of the above work has been included in the new contract Picatinny Arsenal will be awarding this spring.

The referred ranges at Picatinny





Off-Range Operational Range SI from Operation Range Site Investigations

- Goal of Base Contract: Army approval through the COR and Regulator concurrence of Final SI Report on 6 Off Operational Range Areas



On-Range Operational Range SI

- Goal of Base Contract: Army approval of Final SI Report on 6 On Operational Range Areas
- Funded with PM CC dollars
- Regulator and RAB limited interface with Workplan and Report. Not covered by DSMOA or under Defense Environmental Restoration Act



Eastern Edge of Green Pond Brook

- Goal of Base Contract: Army Approval and Regulator Concurrence on an SI Report in 24 Months
- SI for Marsh Site was approved but more data is needed for the Eastern Edge of the Brook.
- “Proposed Sampling Locations” was provided to the NJDEP by NJDEP in email from Anne Pavelka of May 5, 2014
- Contract Option for RI/FS in 36 Months



Lakes Group

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Final FS Report on Lakes Group
- FS has been underway for 8 years, a 2012 FS was considered approved.
- A draft FS with an action alternative was submitted in Spring of 2014.
- Delineation sampling is required for Lake Picatinny prior to FS finalization (5 locations)
- Option for PP/ROD/RA

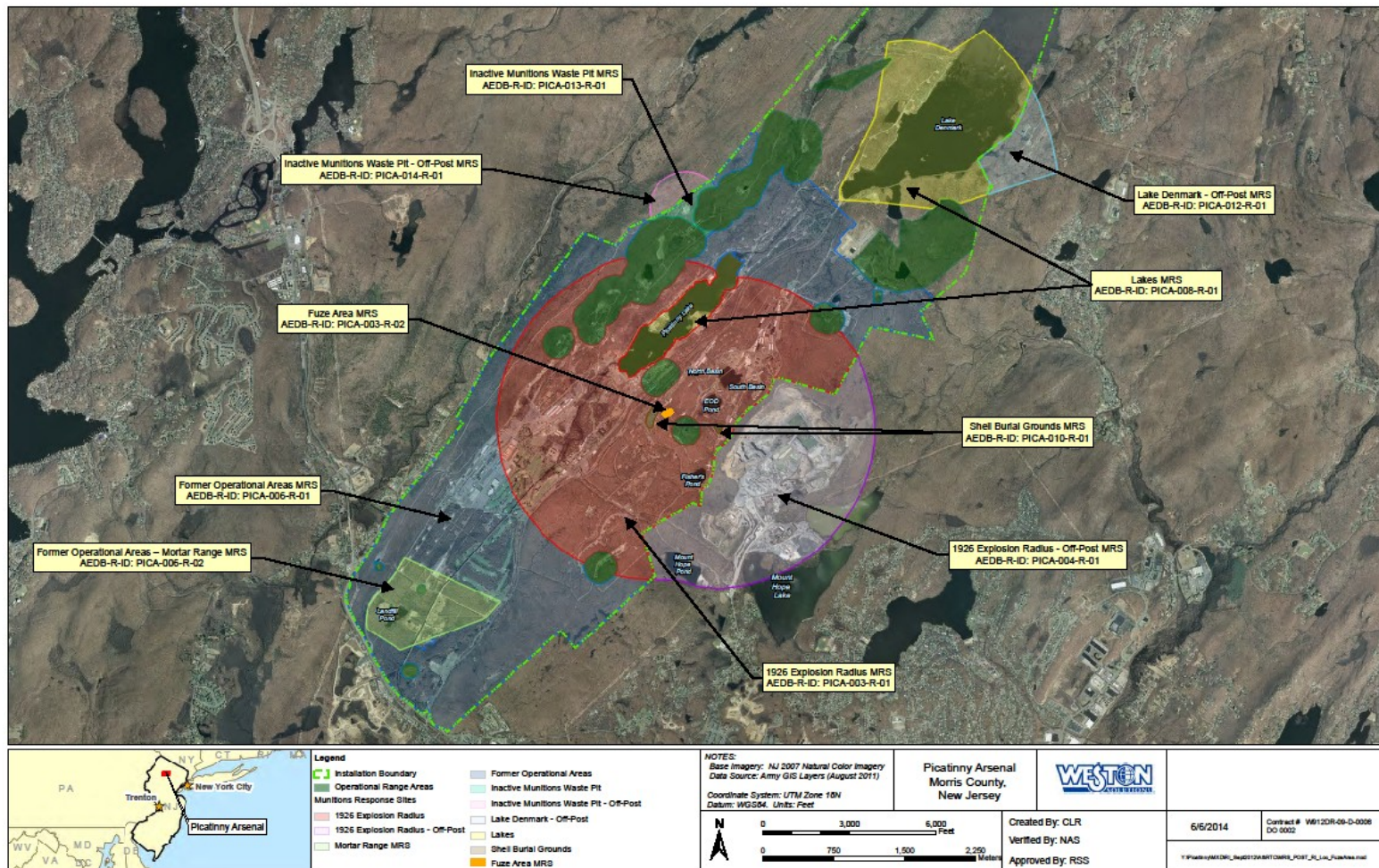


600 Hill Waste Pit which includes co-located MMRP Site and the IRP Site

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Final FS Report on 600 Hill Waste Pit
- Approved FS for 600 Hill TCE Plume Site; Approved RI Report for MMRP Site
- Significant MD/MEC in pit
- Contract Option for PP/ROD/RA

Military Munitions Response Program

Munitions Response Sites





Co-located Former Mortar Range and Former Skeet Area

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Final FS Report
- Approved RI for both IRP and MMRP Sites
- Skeet Area showed unacceptable risk
- Contract Option for PP/ROD/RA



Both the IRP and MMRP Shell Burial Grounds

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Final FS Report
- Approved RI for both IRP and MMRP Sites
- Groundwater monitoring is currently being addressed under the Mid-Valley ROD
- Contract Option for PP/ROD



Munitions Response Sites

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Final FS Report
- Approved RI
- No intrusive field work has been performed on PICA-012-R-01. Long Lead time ROE required if necessary.
- Fuze Area is PICA-003-R-02 which is shown on map
- Contract Option for PP/ROD



Non-Lakes Group

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Proposed Plan and ROD.
- EPA has approved the FS, NJDEP has had comments as well as the Army
- Contractor will assess the need to conduct further field investigations and/or revise the risk assessment
- 12 sites (including over 100 TCUP Buildings and 500-Area Buildings)



45 Site Groups A/B

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Proposed Plan and ROD
- The 48 Site FS is for No Further Action at all the sites: EPA approved FS but NJDEP did not
- 22 Sites in Group A and 23 Sites in Group B
- NJDEP commented on draft Proposed Plans but EPA has not yet



PICA-111

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Proposed Plan and ROD
- EPA and NJDEP have commented on the draft 2013 Proposed Plan. FS was approved.
- 6 Sites



PICA-207

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of Proposed Plan and ROD
- NJDEP requested further delineation on 5 sites which were originally included in the 26-Site Proposed Plan and ROD
- One site is ineligible because it is an operational range: thus there are 4 sites included in the PICA-207 grouping



3 Site Group

- Goal of Base Contract: Army approval through the COR and Regulator Concurrence of ROD
- The Proposed Plan was public noticed in the summer of 2014.
- Unacceptable risk exists at all 3 sites
- Soil delineation sampling will be required prior to finalization of ROD
- Contract Option for the action.



Update on the Status of NFA with Monitoring of Land Use Record of Decision

- Proposed Plan public noticed June 2014.
- No Further Action (NFA) with Monitoring of Land Use ROD: risk was determined acceptable at all 26 Sites meaning remedial action is not warranted and the threshold criteria compliance with ARARs (NJDEP cleanup levels) needs not to be attained.
- September 22nd, 2014: LTC Parker signed the ROD then EPA notified us that EPA Division Director will not sign ROD based on NJDEP concerns.
- NJDEP concerns provided October 2nd and agreed to by Army
 - 5 Sites taken out of ROD for more evaluation: Site 7 (near building 1242); Sites 52, 95, 96 (near building 205), Site 173, Site 187 (building 67), PICA-207 Lumber and Storage Yard: These 5 Sites are now known as the PICA-207 sites
 - Text changes in Declaration Section and Responsive Summary.
- 21-Site NFA ROD signed by Garrison Commander on 4 December 2014 and the Division Director, Walter Mugdan on 2 March 2, 2015.
- Public Notice was with RAB Notice in Picatinny Voice, Morris County Ledger and Record.



Picatinny Arsenal Restoration Advisory Board Meeting



Lists of Sites in 21 Site NFA ROD

Site Name	Site Number	PICA Site Number	LUC Design Document	Date of ROD
21 NFA Sites	—	—	No Further Action with Monitoring of Land Use Record of Decision for PICA-088 (Sites 10, 27, 68, 117, 118, 120, 121, 123, 134, 138, 145, 164, 172, 174, 176, 178, 177, 185, 188, and PICA Site 208) and No Further Action for PICA-088 (Site 80)	U.S. Army 12/4/2017
Building 92, Surveillance Laboratory	69	94		
Building 22, Former Precision Machine Shop	117	98		
Building 64, Former Metal Plating Shop	123	98		
Photography Laboratory	60	101		
Building 447, Explosives and Propellant Mixing Area	145	114		
Building 302, Service Shop	134	134		
Building 355, Metallurgy Laboratory	136	29		
Building 390, Concepts and Application Laboratory	185	29		
Building 3801, Helicopter Support Facility	175	158		
Building 172, Parking Area Across from Building 3328	172	161		
Building 3420, Old Sewage Treatment Plant	174	161		
Building 3316, Firehouse	186	161		
Little League Baseball Field	176	176		
Sanitary Sewer Line Breaks/Leaks	177	177		
Chemical Burial Pit	10	53		
Building 1217, General Purpose Magazine	164	183		
Former Building T-90, Salt Storage Area	27	69		
Buildings 46, 47, and 48, Storage Magazines	119	69		
Building 50, Storage Magazine	120	69		
Building 57, Storage Magazine	121	69		
Former Dog Pound	208	208		



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Update on FINAL NON-TIME CRITICAL REMOVAL ACTION INTERIM LAND USE CONTROL PLAN

- **In 2010** for number of Army installations, established Land Use Controls LUCs as an interim action while the MRSs progress to a final remedy within the Framework of CERCLA: MRS not located on Army-owned land would not addressed
- Approved Engineering Evaluation/Cost Analysis public noticed **NOV-DEC 2011**
- The Action Memorandum, *Interim Land Use Controls, Picatinny Arsenal for **1926 Explosion Radius (PICA-003-R-01)**, Green Pond Site (PICA-005-R-01), **Former Operational Areas (PICA-006-R-01)**, Lakes Sites (PICA-008-R-01), Shell Burial Grounds (PICA-010-R-01), and Inactive Munitions Waste Pit (PICA-013-R-01), Military Munitions Response Program (Action Memorandum or AM) signed by the installation's Garrison Commander on **3 April 2012**.*
- Land Use Control Plan approved and final in **January 2013**
- **GIS documentation of Construction Support**



Construction Support and Avoidance since LUCWP

- Chugach with subcontractor REMTECH:
 - Install 3 Gates B175, , 100 area demolition , - B118 Install two utility poles, Various sign post Installations, Tilling of the wildflower area Safe Haven LPS project MOD1 de-ob 2 days, Emergency cleanup B314, , B902 Demolition MOD1 de-ob 1 day , B175 Playground equipment installation , B525 Removal of slab and footings , B174 Installation of 2 wood poles, Mt. Hope gate underground trenching, , B3228 Dig trenches for video surveillance , Wetland delineation, Truck gate trenching, - B314 Fence installation, B3159 Removal of stumps and grading, B3801 Installation of a gas service, B175 Replacement of a defective pole, B351 Trenching for generator (mod 1) , B3100 Install concrete pad, Install (32) UXO signs, Install Gate, B3410 Installation of new storm water piping installation of poles, B3334 and old burning installation of poles near substation 2- B314 Install fencing, **METC ground loop installation, AAL Archaeological work, Substation 1 utility pole, Utility pole installation , B200 Fueling facility boring, Trailer install American Water near B50, B73 boring for soil samples, B507 for Installation of a Utility Pole and Ground Rods, B3321 Concrete pad installation** ⁴⁴ **B472 Installation of a gas line**



Picatinny Arsenal Restoration Advisory Board Meeting



Programmatic Developments

- **2015 Installation Action Plan (IAP) is now being updated**
 - 2014 IAP has been on Picatinny Web page
- **Performance-based contracting effort (as discussed earlier)**
- **Picatinny developing an Environmental Restoration Program Web Page**